



ONC FHIR at Scale Taskforce (*FAST*): Getting Involved in 2021





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Agenda

- **Today's Meeting Objectives**
- **What is *FAST*?**
- ***FAST* Solution Overview**
- ***FAST* January 2021 HL7 Connectathon Testing and Results**
- ***FAST* Action Plan: The Path Forward & How You Can Get Involved**
- ***FAST* Pilot Plans**
- ***FAST* Artifacts and More...**
- **Q & A**





Objectives

- Learn more about the *FAST* solutions and Initiative progress, with testing and standards development work already underway
- Understand how the *FAST* solutions can relate to your organization's roadmap
- Identify where and when you or your organization can get involved



What is *FAST* ?





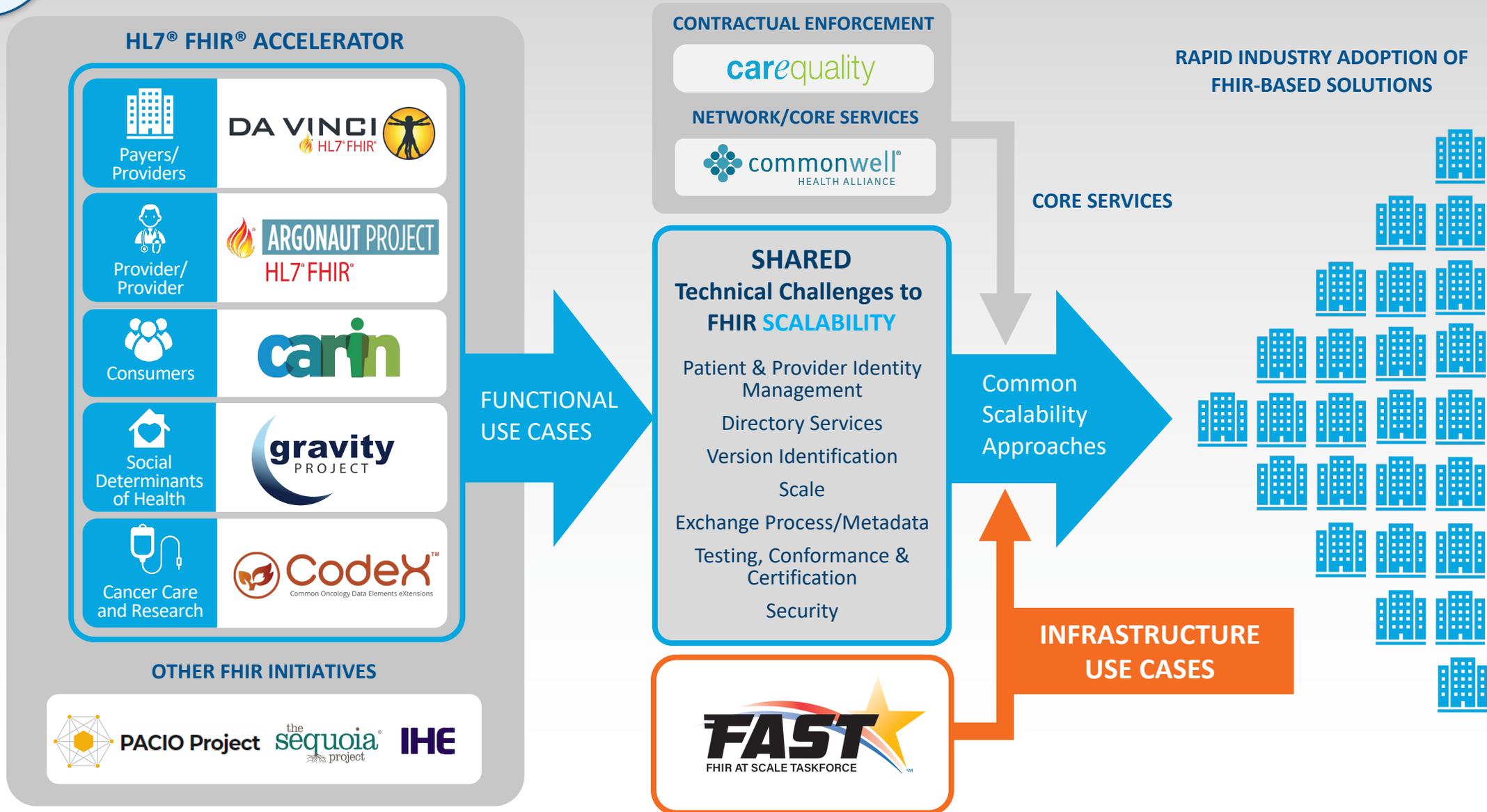
What is *FAST*?

*The **FHIR at Scale Taskforce (FAST)**, convened by the Office of the National Coordinator for Health IT (ONC), brings together a highly representative group of motivated healthcare industry stakeholders and health information technology experts.*

The group is set to identify HL7[®] Fast Healthcare Interoperability Resources (FHIR[®]) scalability gaps and possible solutions, analysis that will address current barriers and will accelerate FHIR adoption at scale.

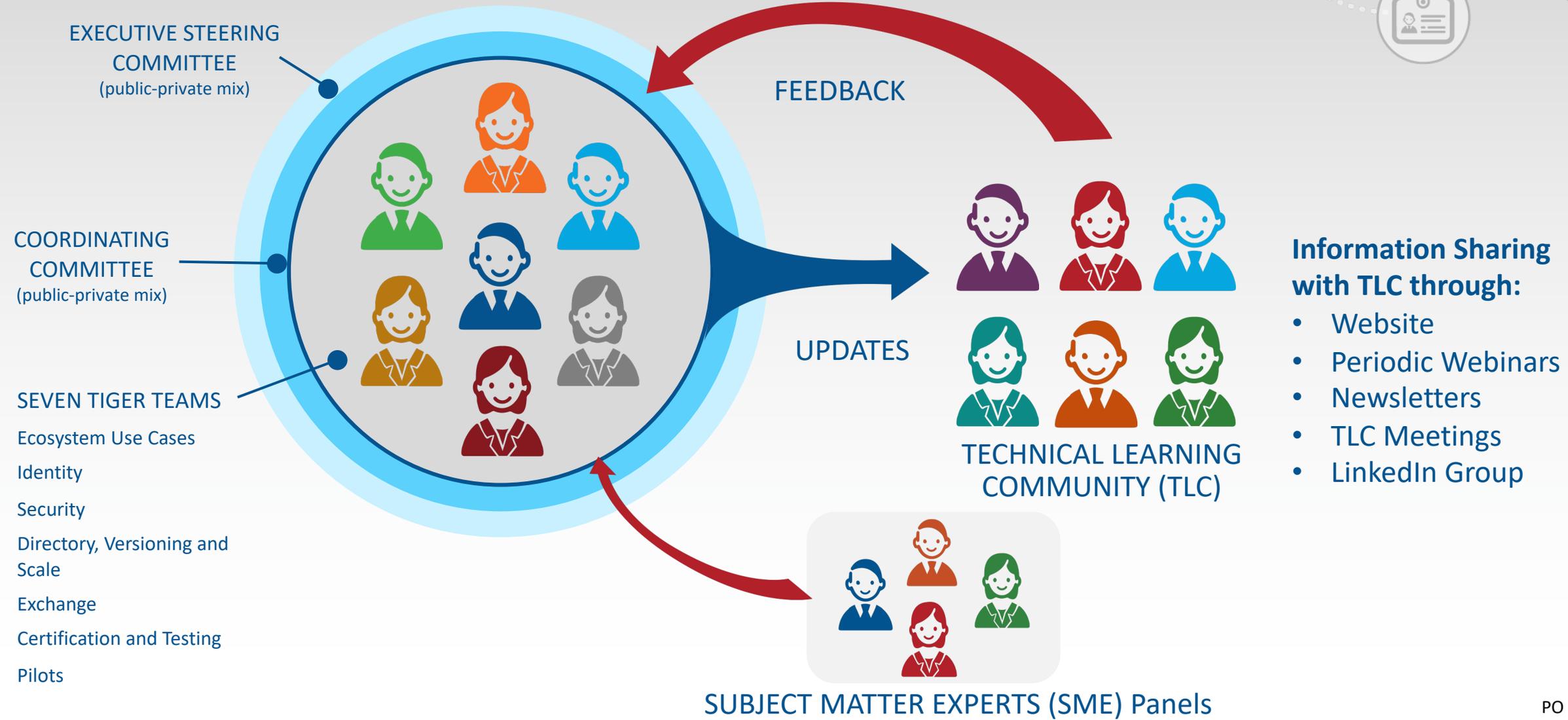


Paving the Way Towards FHIR "at Scale"





FAST Organization & Community Engagement





FAST Proposed Solutions

■ Directory, Version & Scale (3) ■ Identity (4) ■ Exchange Process (1) ■ Testing & Certification (1) ■ Security (4)

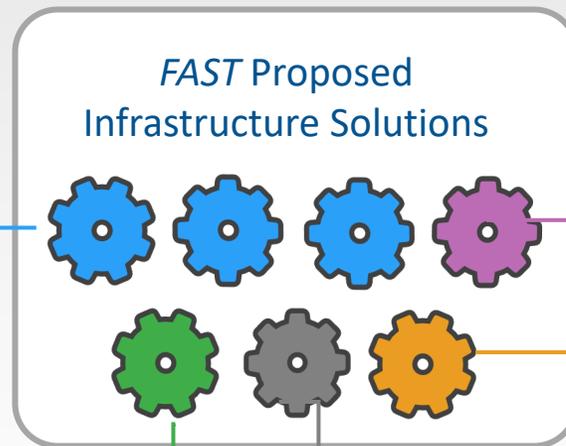
⚙️ A US Wide Solution for a National Healthcare Directory

⚙️ A US Wide Methodology for Supporting Multiple Production Versions of FHIR

⚙️ US Wide Scaling Requirements for FHIR RESTful Exchange Intermediaries

⚙️ National Standards Based Approaches for Individual Identity Management

- Mediated Patient Matching
- Collaborative Patient Matching
- Networked Identity Management
- Distributed Identity Management



⚙️ An HL7 FHIR Standard Based Solution for Exchange with or without Intermediaries
- Reliable Routing with Metadata Across Intermediaries

⚙️ FHIR Testing & Certification Platform

⚙️ US Wide Model(s) for Scalable Security Solutions

- UDAP Trusted Dynamic Client Registration
- UDAP Tiered OAuth for User Authentication
- UDAP JWT-Based Client Authentication
- UDAP JWT-Based Authorization Assertions

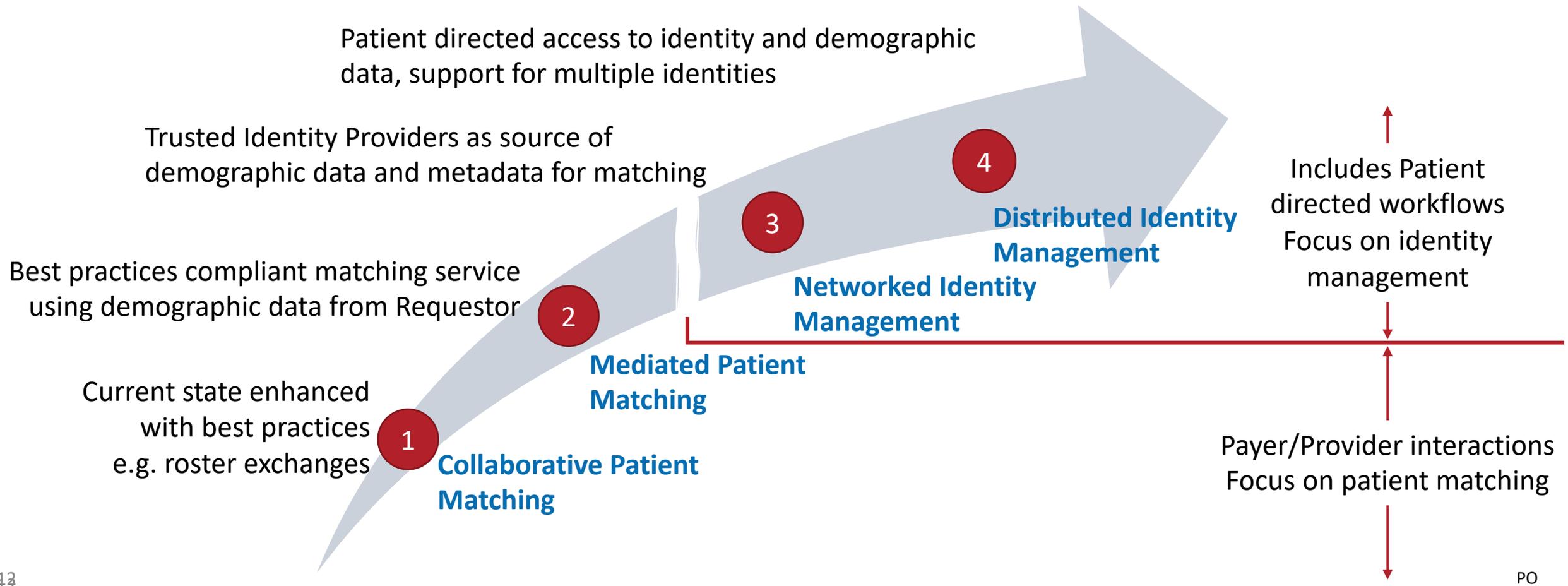
FAST Identity Management





Solution Options: Low to High Complexity

Multiple options progressing from lower to higher complexity (technical and process)





Identity Management- Overview and status



BARRIER

The industry currently employs a range of patient matching and identity management processes with inconsistencies and limited scalability beyond the walls of an organization



SOLUTION

Establish a set of patient matching and identity management patterns and best practices that the industry can adopt to reduce the variations that exist today and provide a bridge to incremental advancement and innovation



IN SCOPE

Establish a set of patient matching and identity management patterns and best practices that the industry can adopt to reduce the variations that exist today and provide a bridge to new approaches in the future



OUT OF SCOPE

Contractual arrangements, grammar for communicating consents and level of identity verification for certain attributes, and for access grants/delegation. (Security and directory considerations are addressed by other FAST solutions)



STATUS

Incorporated feedback from industry stakeholders



OPEN ITEMS

Pursue provider identity matching. Apply proposed solutions to use cases, capture patient matching recommendations, explore steps to Distributed Identity Management, consider how regulation/policy might address challenges that can't be solved by the market



CURRENT SOLUTION

[FAST Identity proposed solution document](#)
(version 3 in progress)

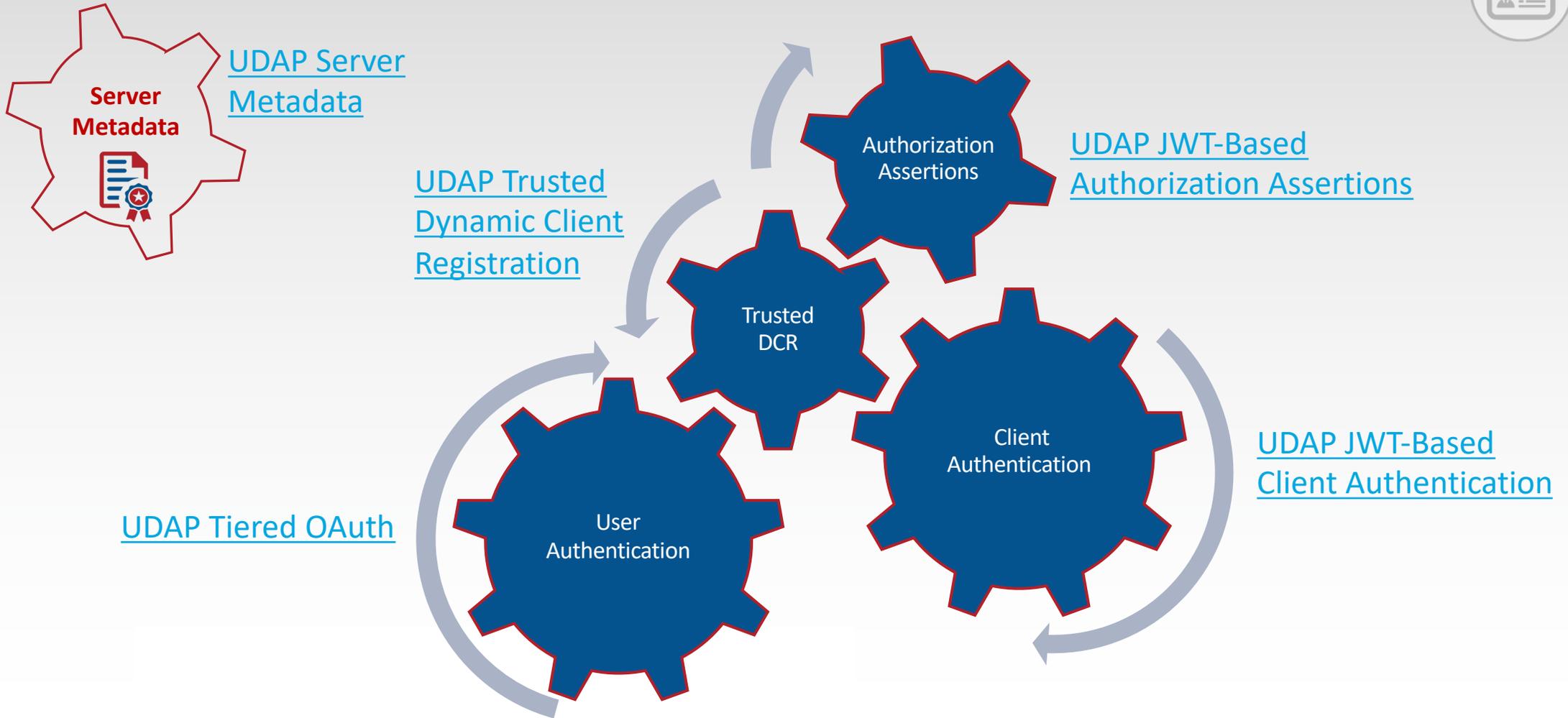


***FAST: Scalable Registration,
Authentication, and Authorization for
FHIR Ecosystem Participants***





Proposed Solution: Trusted Ecosystem





Overview and status



BARRIER

Today, we have limitations on our ability to ensure, in a scalable way, that the requestor of information using a FHIR based information exchange is appropriately authenticated and has the authorization to see the data requested. Current registration processes are manual and too time-consuming to support expected growth



SOLUTION

Leverage existing credentials and authorizations and best practice standards to establish common security processes that facilitate automated exchange and reuse existing infrastructure where possible



IN SCOPE

Trusted Dynamic Client Registration using Unified Data Access Profiles (UDAP)

JWT-Based Client Authentication & Authorization



OUT OF SCOPE

Directory for Endpoint Discovery, Trust Policy Governance, Requirements for a specific architecture, Patient/provider or provider/patient



STATUS

Incorporated feedback from industry stakeholders.



OPEN ITEMS

Cross-solution overlaps, explore standard authorization metadata requirements, recommendations related to privacy



CURRENT SOLUTION

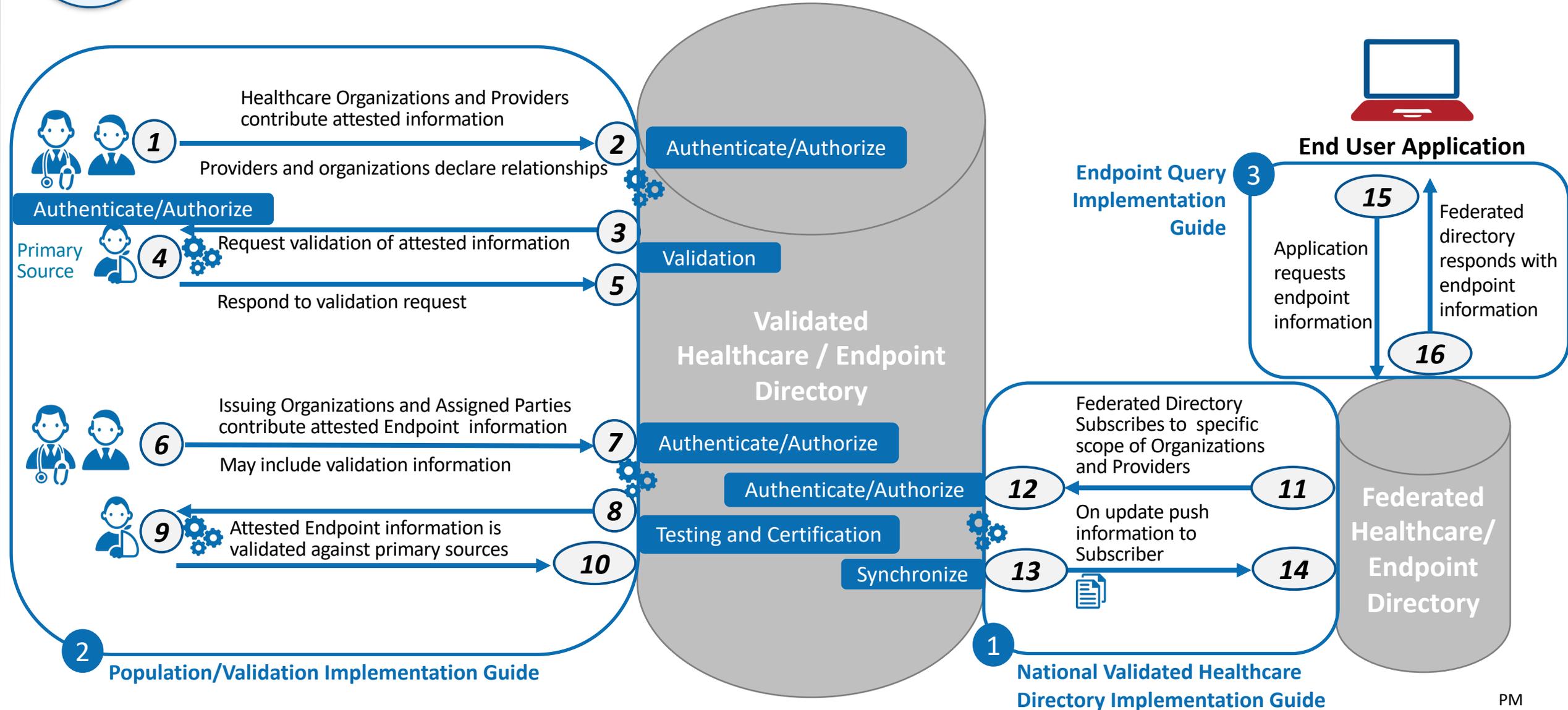
[FAST Security proposed solution document](#)
(version 3 draft)

***FAST* National Healthcare Directory**





FAST Endpoint Directory – Architecture and Workflow





FAST National Healthcare Directory- Overview and status



BARRIER

The industry lacks a generally available method to find healthcare related individuals, organizations, and FHIR endpoints and their associated capabilities and attributes, as well as a common process for maintaining the information and validating its accuracy



SOLUTION

One national source for validated directory information that is available to federated directories for enhancement and integration into specific workflows



IN SCOPE

Healthcare validated directory including individual and entity demographics and relationships to determine appropriate endpoint(s), computable endpoint information such as versions supported, metadata for routing, trust framework, implementation guides and certification status

Federated access by HIEs, state directories, EHRs



OUT OF SCOPE

Manual / portal access, creation of a trust framework, non-FHIR related endpoints, application certification process



STATUS

Submitted and obtained approval for HL7 Project Scope Statement (PSS) to initiate development of 3 HL7 Implementation Guides, targeted for Sept 2021 STU Ballot



OPEN ITEMS

Define the minimum viable product (MVP) & outline the incremental steps/roadmap to build a directory of endpoints. Develop IGs. Connectathons



CURRENT SOLUTION

[FAST Endpoint directory proposed solution document](#)
(version 3)

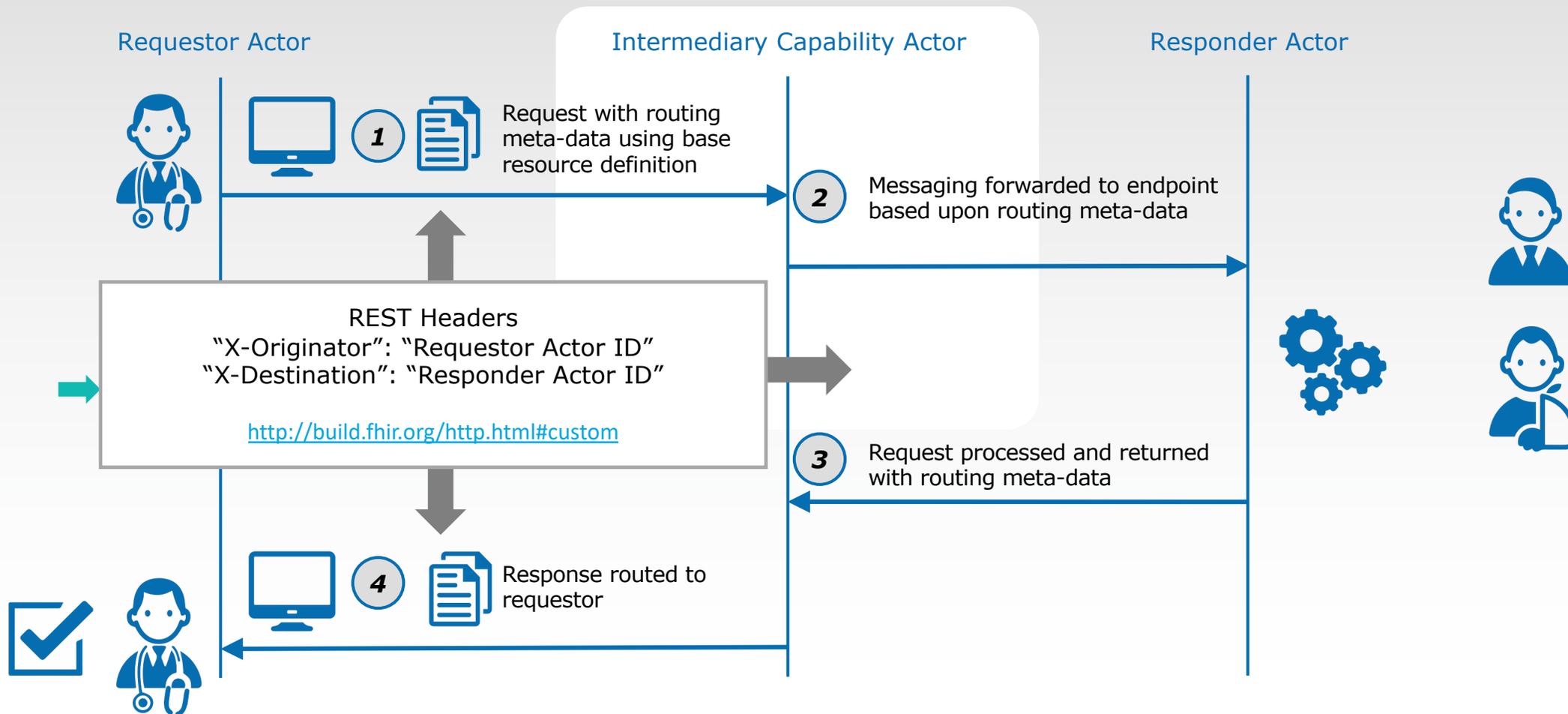


***FAST* HL7 FHIR Standard Based Solution
for Hybrid/Intermediary Exchange
(Exchange with or without
Intermediaries)**



FAST Exchange Solution for Routing Metadata – Process Flow

Planning for a hybrid future while learning from existing models such as CAQH CORE and clearing house patterns





Overview and status



BARRIER

FHIR information exchange is typically performed “point to point” between two trusted system endpoints. Because healthcare participants may also wish to leverage intermediaries in FHIR exchanges, a solution for conveying routing information is needed



SOLUTION

Employ RESTful header parameters to send originator and destination information for use by exchange intermediaries



IN SCOPE

Exchange using intermediaries in addition to point-to-point connections
Method for exchanging routing information within HTTP REST headers



OUT OF SCOPE

Value set defining exchange identifiers. Capturing provenance information from exchange through multiple intermediary “hops”
Security considerations are being addressed by the FAST Security Tiger Team through a separate implementation guide



STATUS

Incorporated feedback from industry stakeholders. Full SME session report [here](#). Connectathon testing & implementation guide development through the HL7 balloting process.



OPEN ITEMS

Expand direction on usage of the alternative solution employing FHIR .meta elements



CURRENT SOLUTION

[FAST Exchange solution document](#)

(version 3 in progress)

***FAST* FHIR Testing & Certification Platform**

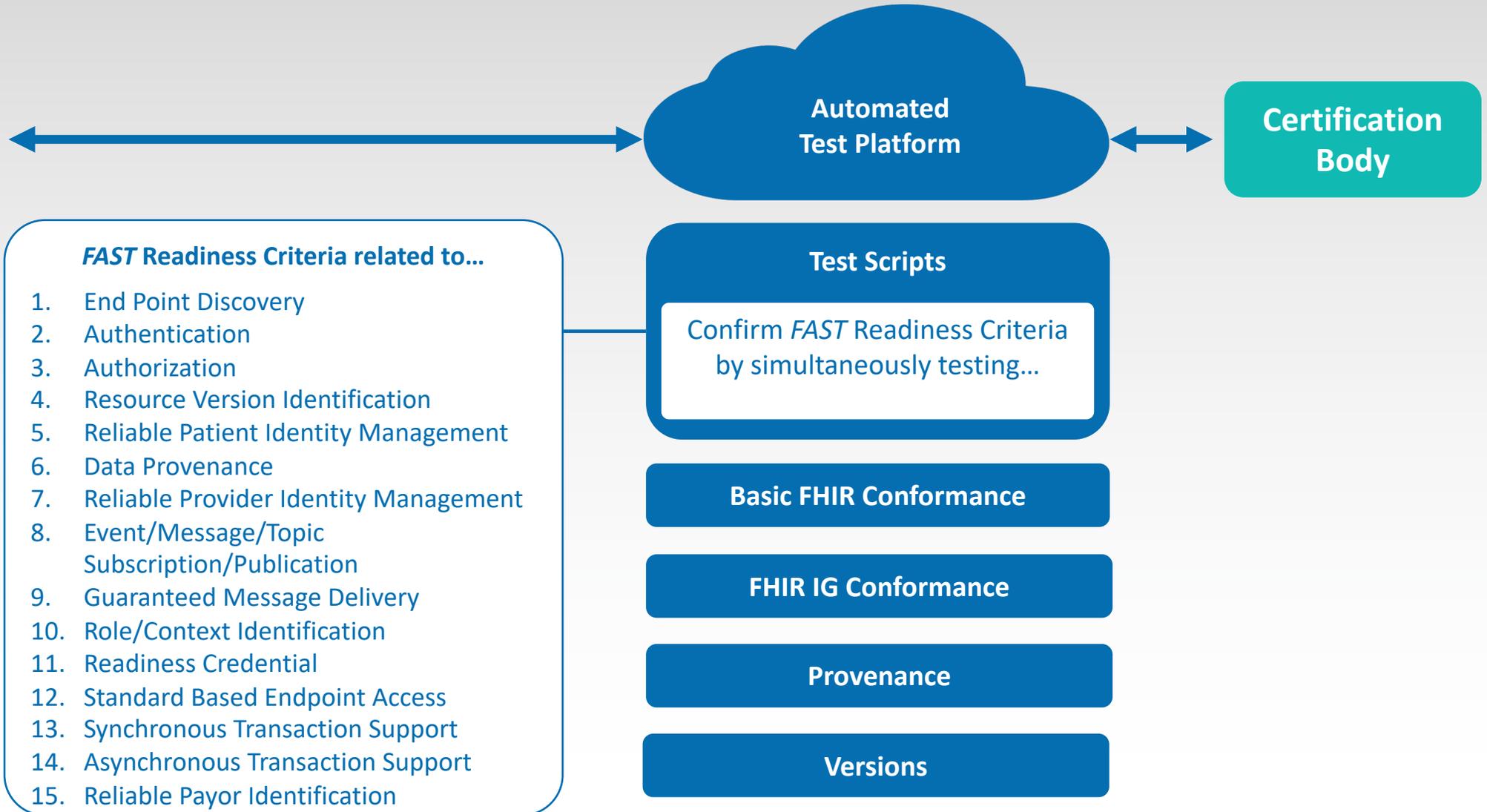




Proposed Solution: ONC *FAST* Testing & Certification Program



DEVELOPER





Overview and status



BARRIER

FHIR testing capabilities and an associated accreditation/certification are needed to support reliable, trusted exchange between healthcare participants. It must be a process in which specification/ requirements that are well established and broadly shared can be absolutely confirmed



STATUS

Incorporating feedback from industry stakeholders



SOLUTION

Testing platform supporting the base FHIR Specification and FAST Readiness Criteria:

Automated tool to perform testing and validation & ONC FHIR Testing & Certification Program



OPEN ITEMS

Assertion Table Completion: to document solution guidance type, clarify test method, and who needs to test. Explore and finalize an RFI



IN SCOPE

Establish scope of assertions for validation testing & certification to FAST readiness criteria. Draft RFI to gather information on best approach



OUT OF SCOPE

HL7 FHIR Validation Engine, RFP development to select entity to provide services

Validate ease of establishing connections, conformance to non-blocking requirements, conformance to HIPAA patient privacy



CURRENT SOLUTION

[FAST Testing & Certification solution document](#)
(version 3 in progress)

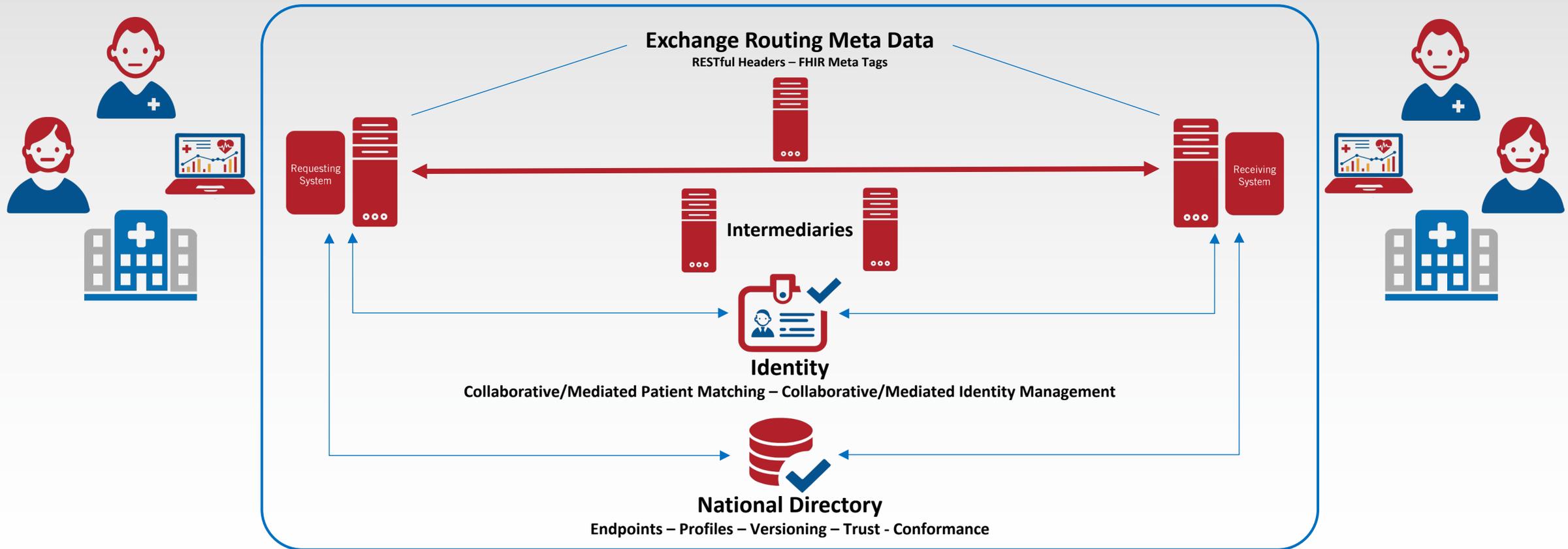


Conceptual Integrated Architecture



Security (Authenticate/Authorize)

UDAP Trusted Dynamic Client Registration - UDAP Tiered OAuth User Authentication - UDAP JWT-Based Client Authentication - UDAP JWT-Based Authorization Assertions



CONFORMANCE & CERTIFICATION (Testing & Certification Program)

PILOTS (FAST Capability Vetting with Existing HL7 Accelerators)



***FAST* HL7 Connectathon Testing:** Results from January 2021



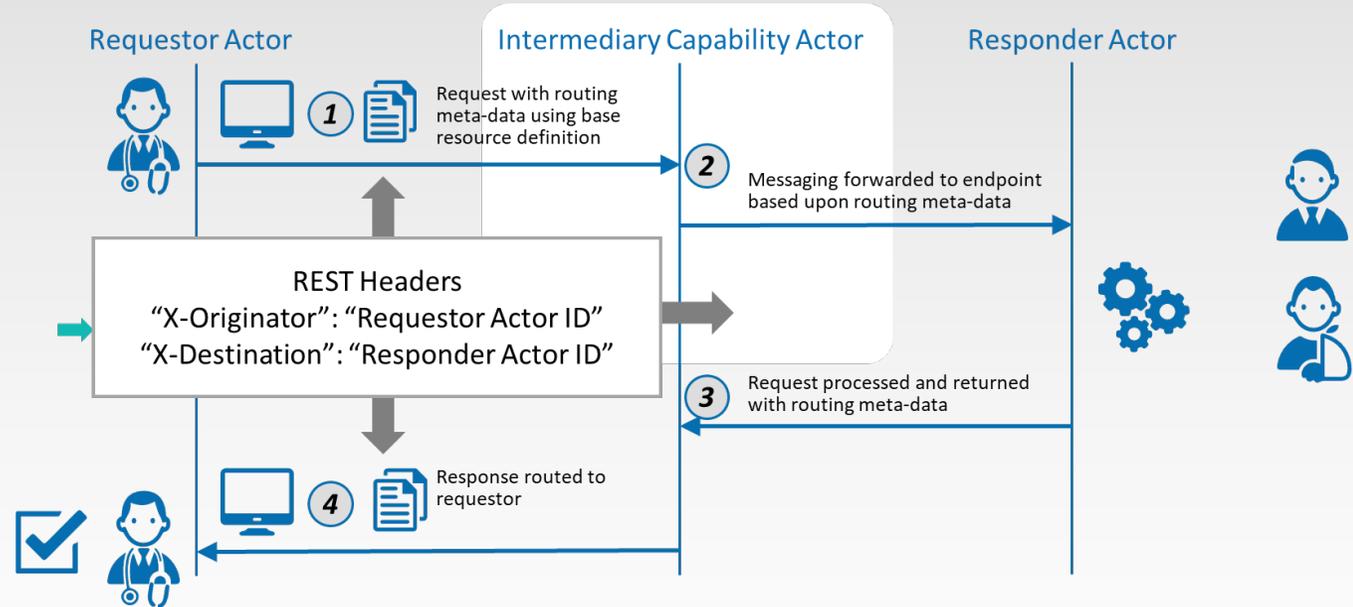
FAST Hybrid/Intermediary Exchange (Exchange with or without Intermediaries)

Track Purpose:

- Start to test FHIR interactions across intermediaries as opposed to direct point to point interactions
 - Headers needed for routing across intermediaries
 - Ability to respond using headers in the return message

Track Goals:

- Determine if we have the routing information embedded in the headers that we need to deliver and receive via FHIR
- Update draft “pre-IG” Google Doc with testing feedback



Track Confluence Page: [FHIR at Scale \(FAST\): Exchange with or without Intermediaries](#)

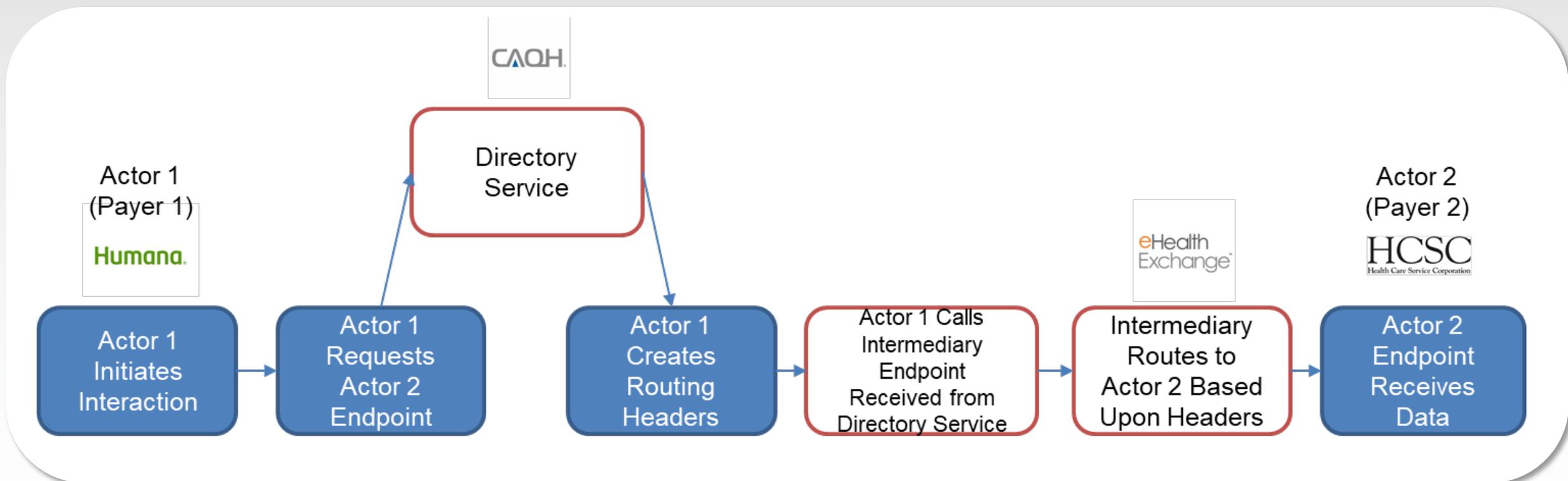
Project Scope Statement (PSS): [FAST Exchange Metadata Using RESTful Headers](#)

Track Lead: Durwin Day, dayd@bcbsil.com and Patrick Murta, pmurta@humana.com



FAST Hybrid/Intermediary Exchange (Exchange with or without Intermediaries)

Process Flow (With Headers, With Directory, With Intermediaries)





FAST Security/ Identity – Cross Organization Application Access

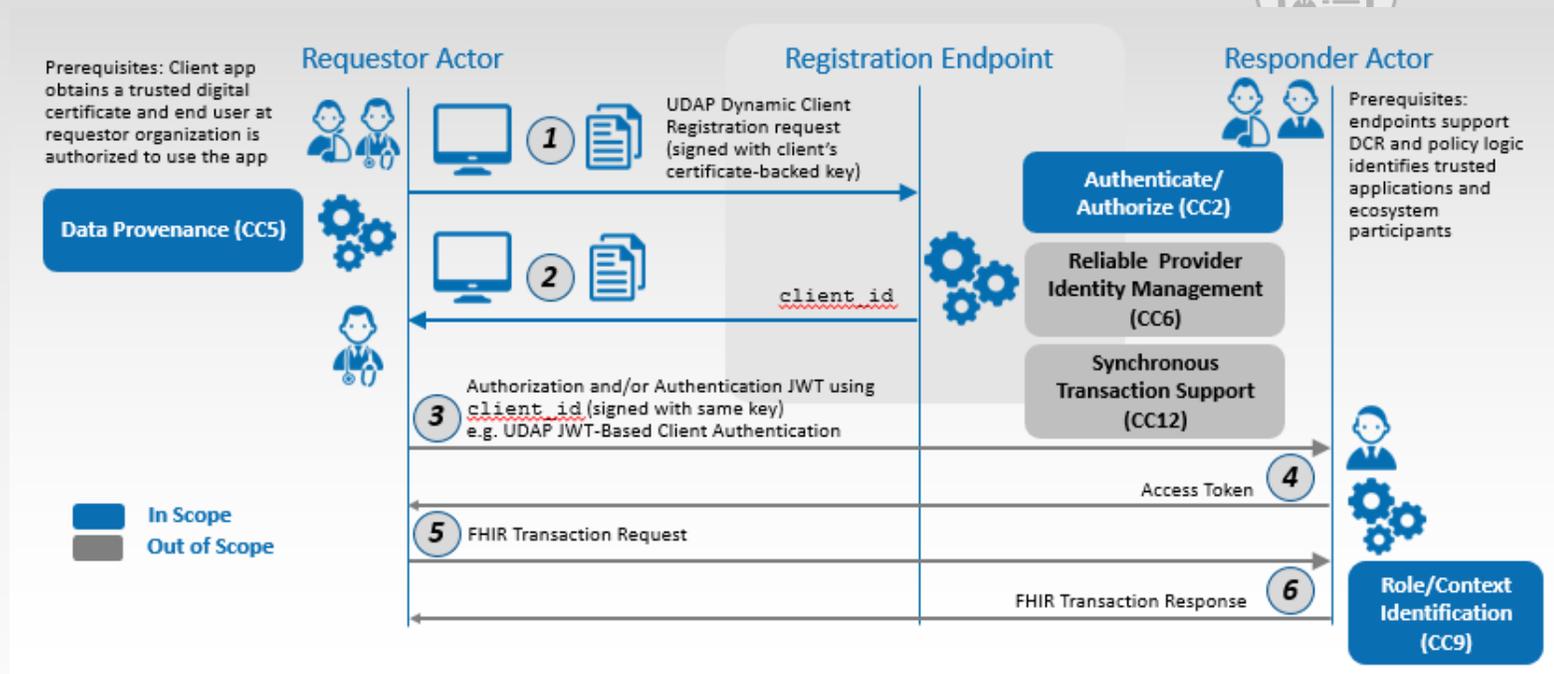
Track Purpose:

- Tests scalable ecosystem trust models as are being explored by FAST and Carequality.

Track Goals:

Track 2: Trusted Dynamic Registration & JWT-Based Authentication (B2B)

- Precondition: Client's UDAP certificate is trusted
- Action: Client app registers, authenticates, and requests FHIR data
- Success Criteria: Client app successfully registers, authenticates, and obtains FHIR data
- Bonus point: Client and server use Tiered OAuth to authenticate user



Track Confluence Page: [2021-01 Cross Organization Application Access](#)

Track Lead: Luis Maas



FAST Endpoint Directory – Related Connectathon Tracks

1. Da Vinci PDex Plan Net (Provider Directory)

Track Goal:

- Exercise the implementation guide to allow payers to meet the CMS Interoperability and Patient Access rule for making their provider networks available through an API

Track Confluence Pages:

- **Combined Track:** [2021-01 Da Vinci Patient Access API \(PDex/Plan Net/Formulary\)](#)
- **Sub-Track:** [2021-01 Da Vinci - PDex Plan-Net \(Provider Directory\)](#)

Implementation Guide: <http://hl7.org/fhir/us/davinci-pdex-plan-net/STU1>

Track Lead: Saul Kravitz (saul@mitre.org)

2. Da Vinci HRex/CDex/PCDE – Health Record, Clinical Data & Payer Coverage Decision Exchange

Track Goals:

- Exchange clinical data from provider to provider and provider to payer
- Payer-to-payer data exchange to ensure continuity of care when a patient transitions between payers
- Test payer endpoint directory to support payer exchanges

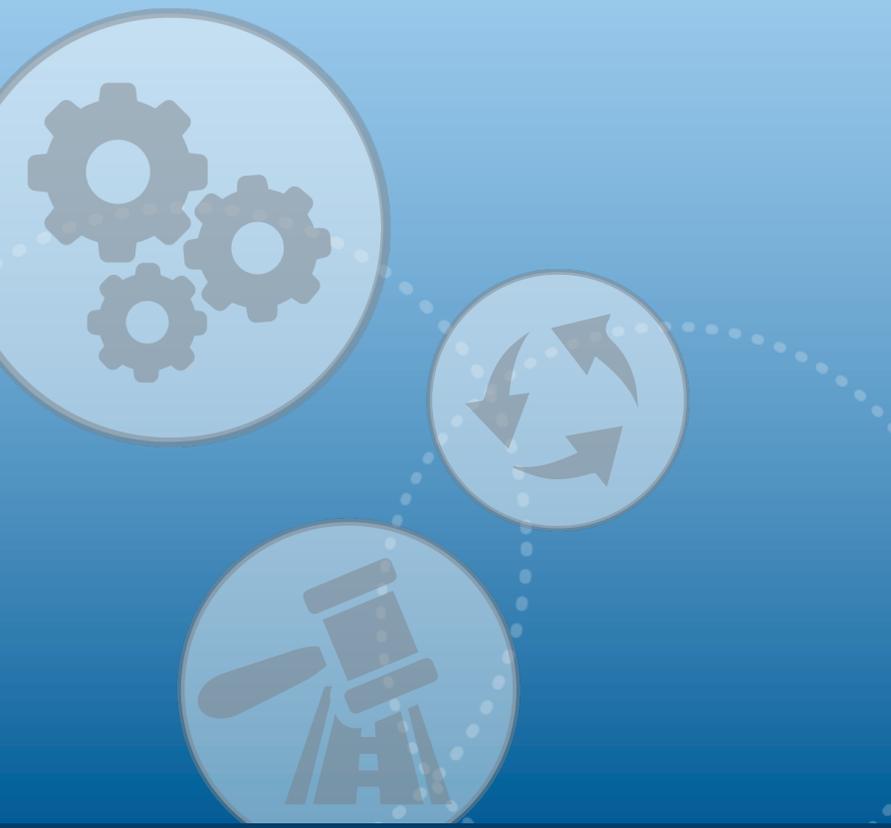
Track Confluence Page: [2021-01 Da Vinci - HRex/CDex/PCDE - Health Record, Clinical Data & Payer Coverage Decision Exchange](#)

Implementation Guides:

- [HRex FHIR Implementation Guide \(Continuous Build version\)](#)
- [CDex FHIR Implementation Guide \(Continuous Build version\)](#)
- [PCDE FHIR Implementation Guide \(Continuous Build version\)](#)

Track Leads: Lloyd McKenzie (lloyd@lmckenzie.com), May Terry (mayt@mitre.org), Joseph Minieri (jminieri@mitre.org)

If interested in more information, contact FAST solution lead: Bob Dieterle



***FAST* Action Plan:**

The Path Forward & How You
Can Get Involved

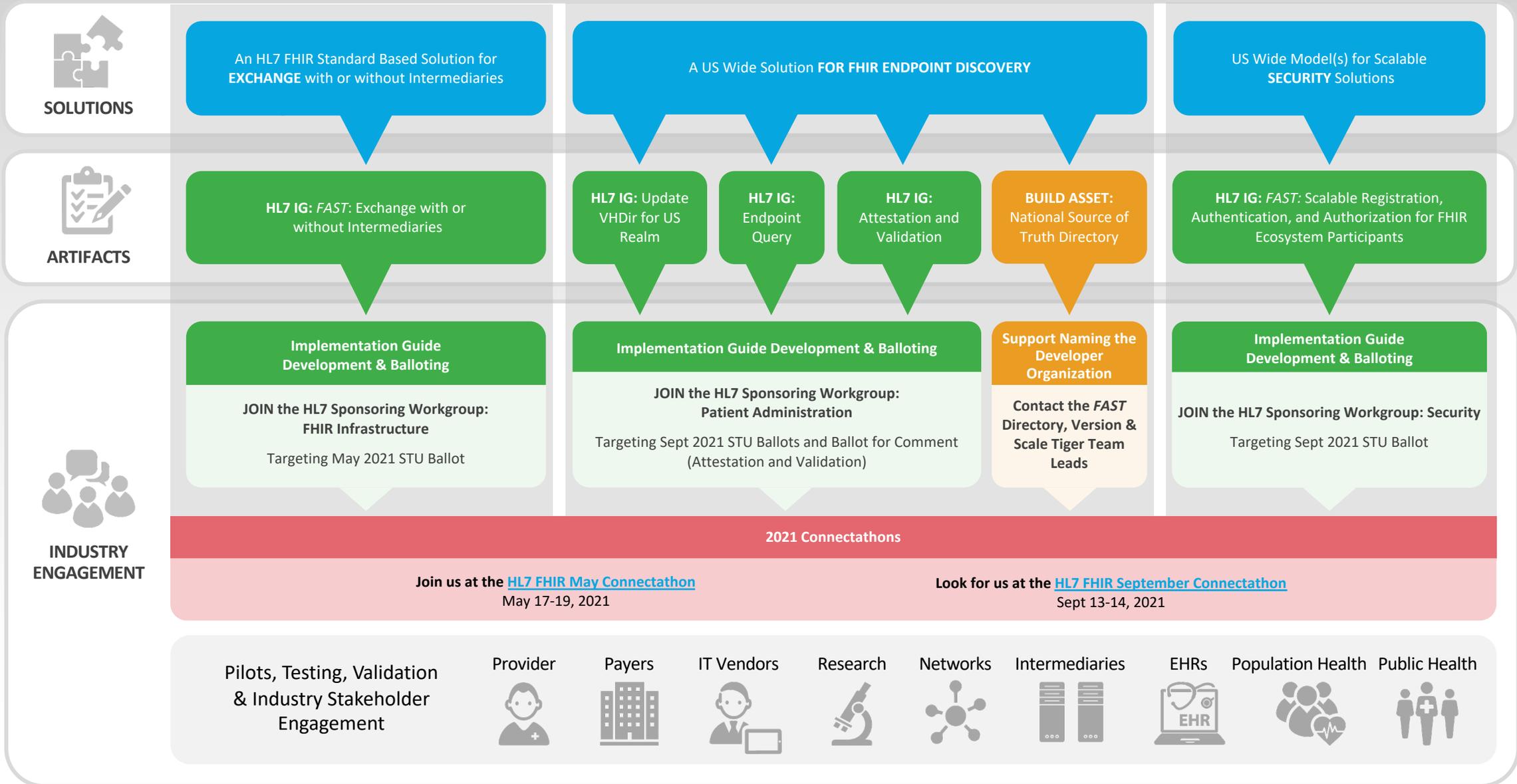




How Can You Get Involved and What Can You Do?

- Participate in upcoming Connectathons
- Join HL7 Work Groups to help further develop the *FAST* Implementation Guides
- Participate in the *FAST* Pilot Program

Moving Solutions to Standards Development & Implementation Readiness



SOLUTIONS

ARTIFACTS

INDUSTRY ENGAGEMENT

An HL7 FHIR Standard Based Solution for EXCHANGE with or without Intermediaries

A US Wide Solution FOR FHIR ENDPOINT DISCOVERY

US Wide Model(s) for Scalable SECURITY Solutions

HL7 IG: FAST: Exchange with or without Intermediaries

HL7 IG: Update VHDir for US Realm

HL7 IG: Endpoint Query

HL7 IG: Attestation and Validation

BUILD ASSET: National Source of Truth Directory

HL7 IG: FAST: Scalable Registration, Authentication, and Authorization for FHIR Ecosystem Participants

Implementation Guide Development & Balloting

Implementation Guide Development & Balloting

Support Naming the Developer Organization

Implementation Guide Development & Balloting

JOIN the HL7 Sponsoring Workgroup: FHIR Infrastructure
Targeting May 2021 STU Ballot

JOIN the HL7 Sponsoring Workgroup: Patient Administration
Targeting Sept 2021 STU Ballots and Ballot for Comment (Attestation and Validation)

Contact the FAST Directory, Version & Scale Tiger Team Leads

JOIN the HL7 Sponsoring Workgroup: Security
Targeting Sept 2021 STU Ballot

2021 Connectathons

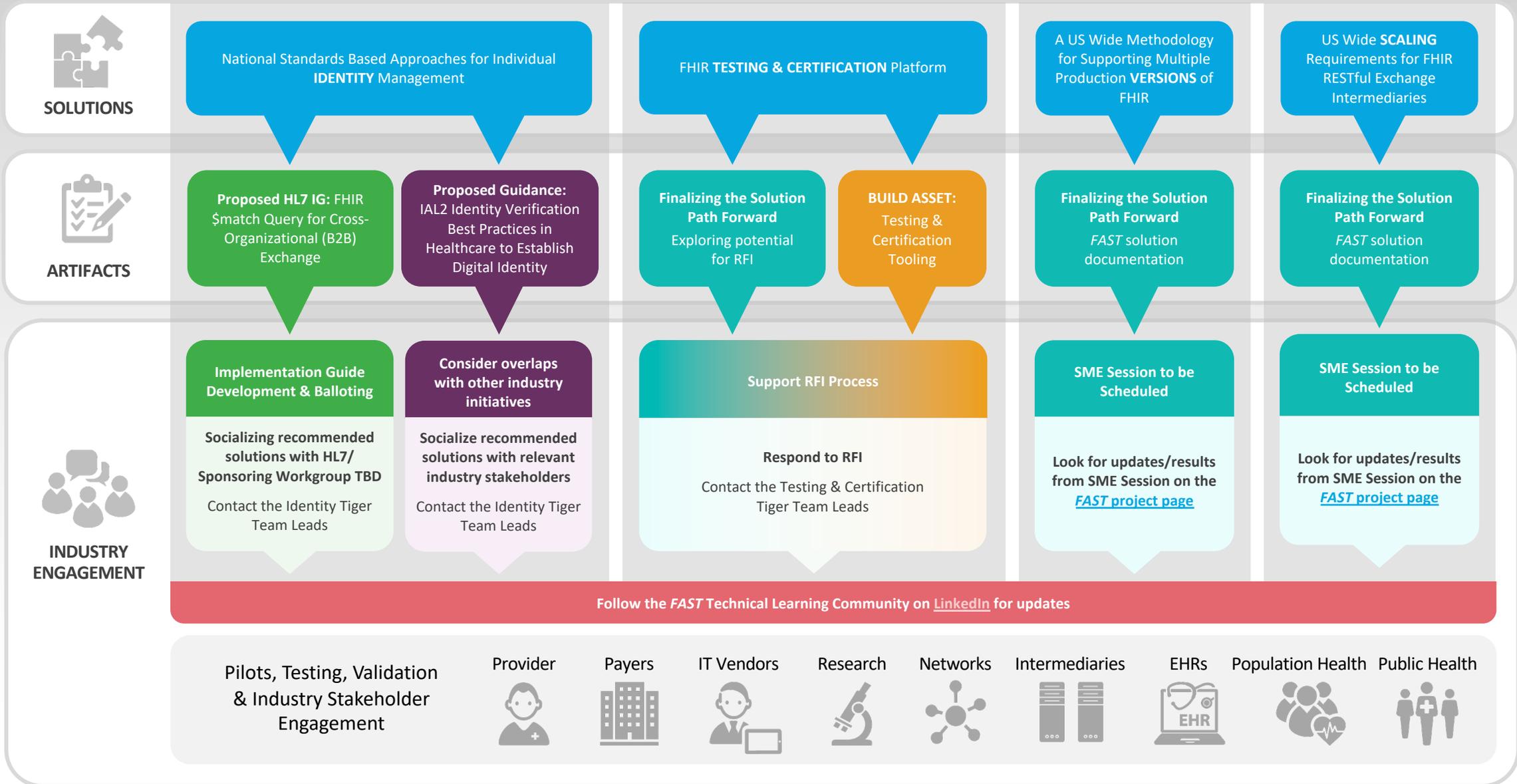
Join us at the [HL7 FHIR May Connectathon](#)
May 17-19, 2021

Look for us at the [HL7 FHIR September Connectathon](#)
Sept 13-14, 2021

Pilots, Testing, Validation & Industry Stakeholder Engagement

- Provider
- Payers
- IT Vendors
- Research
- Networks
- Intermediaries
- EHRs
- Population Health
- Public Health

Moving Solutions to Standards Development & Implementation Readiness





Next Steps Through 2021: Hybrid/Intermediary Exchange

External Drivers

HL7

Project Scope Statement (PSS) Approved by FHIR Infrastructure (FHIR-I) WG

Oct 12, 2020

PSS Approved by US Realm

Project Proposal Accepted **Nov 3, 2020**

PSS Approved by FHIR Management Group (FMG)

Nov 4, 2020

Oct 19, 2021

Jan HL7 FHIR Connectathon Proposal Complete

Nov 17, 2020

Jan 2021 HL7 FHIR Connectathon Track Complete **Jan 13-15, 2021**

FHIR IG Proposal Approved by FHIR-I WG

Feb 8, 2021

FHIR IG Proposal Approved by FMG

Feb 17, 2021

Notice of Intent to Ballot (NIB) **March 1, 2021**

HL7 May 2021 Ballot Cycle

May 2021 HL7 FHIR Connectathon

HL7 Sept 2021 Ballot Cycle

Sept 2021 HL7 FHIR Connectathon



FAST Workstream

Exchange

Complete V3 Solution Doc

Initiate Project with HL7 Submit PSS and Obtain Approvals

Prepare for Jan 2021 Connectathon Testing

Prepare for May 2021 Connectathon

Prepare for Sept 2021 Connectathon

Implementation Guide Development Incorporate Community/ Connectathon Feedback

HL7 May 2021 STU Ballot

Ballot Reconciliation

Publish STU 1

Prep for May 2022 STU 2 Ballot Cycle Incorporate Implementation Feedback

2022



Hybrid/Intermediary Exchange (Exchange with or without Intermediaries)

Now What?

- Incorporate track feedback/discussion into IG development
- Continue to engage the community in further solution development, testing
- Develop the Implementation Guide

Sign up to vote in the May 2021 Ballot Cycle (March 15th – April 15th)

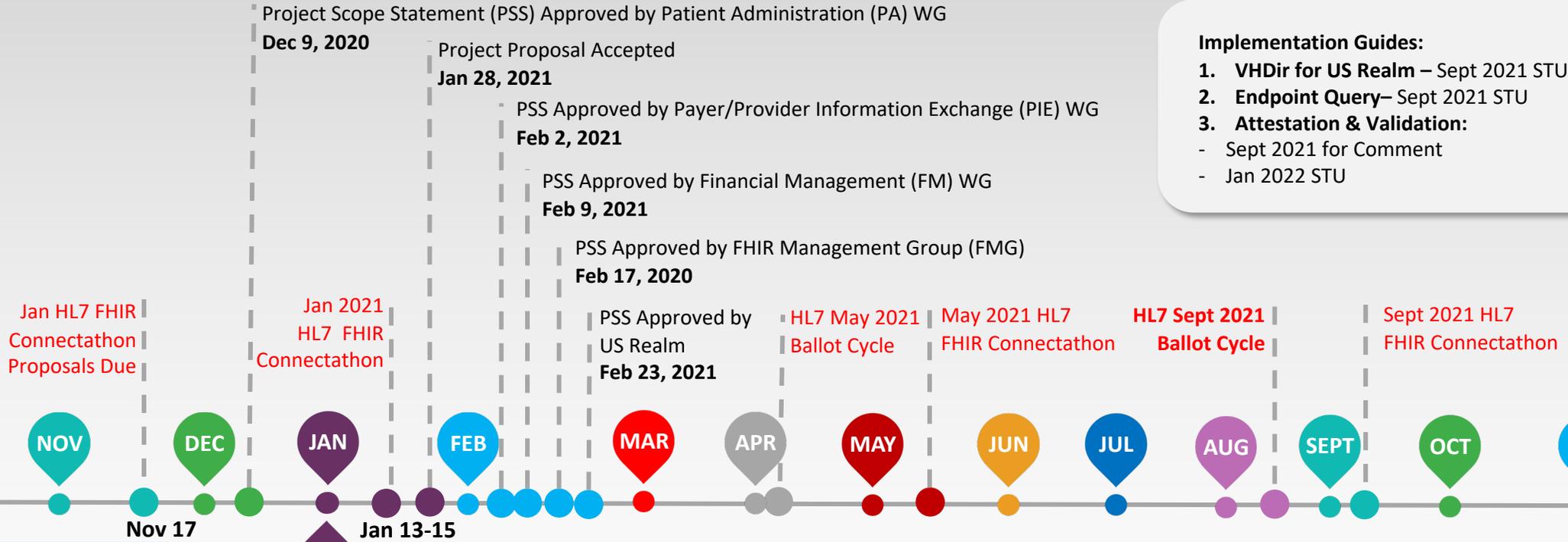
HL7 Milestone	Due Date
Project Proposal	✓
Project Scope Statement (PSS)	✓
FHIR IG Proposal	✓
Notice of Intent to Ballot (NIB)	✓
Ballot Signup Starts	March 15, 2021
Final IG Content	April 11, 2021
Ballot Signup Ends	April 15, 2021
Ballot Voting Starts	April 16, 2021
Ballot Voting Ends	May 16, 2021



Next Steps Through 2021 (DRAFT): National Healthcare Directory

External Drivers

HL7

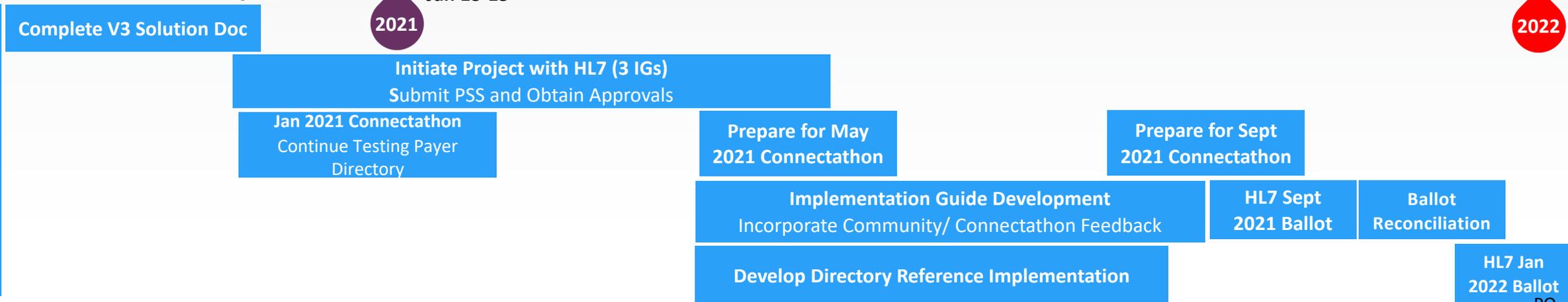


Implementation Guides:

1. VHDir for US Realm – Sept 2021 STU
2. Endpoint Query– Sept 2021 STU
3. Attestation & Validation:
 - Sept 2021 for Comment
 - Jan 2022 STU

FAST Workstream

Directory





National Healthcare Directory

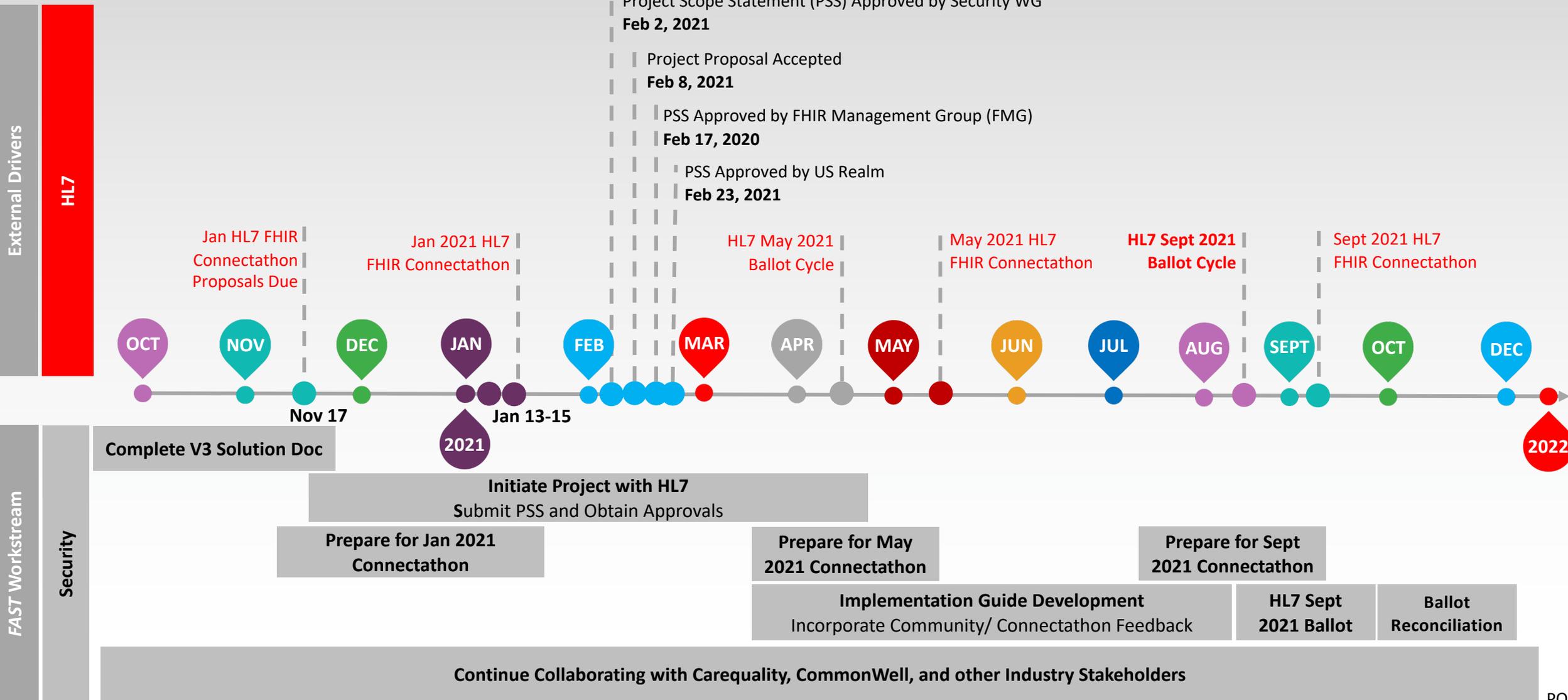
Now What?

- HL7 Technical Steering Committee (TSC) final review and approval of Project Scope Statement (PSS)
- Develop FHIR IG Proposal
- Submit a Notice of Intent to Ballot (NIB) to progress project through HL7 balloting process

HL7 Milestone	Due Date
Project Proposal	✓
Project Scope Statement (PSS)	April 25, 2021
FHIR IG Proposal	June 20, 2021
Notice of Intent to Ballot (NIB)	July 4, 2021
Ballot Signup Starts	July 12, 2021
Final IG Content	August 8, 2021
Ballot Signup Ends	August 12, 2021
Ballot Voting Starts	August 13, 2021
Ballot Voting Ends	September 13, 2021



Next Steps Through 2021 (DRAFT): Scalable Registration, Authentication, and Authorization for FHIR Ecosystem Participants





Scalable Registration, Authentication, and Authorization for FHIR Ecosystem Participants

Now What?

- HL7 Technical Steering Committee (TSC) final review and approval of Project Scope Statement (PSS)
- Develop FHIR IG Proposal
- Submit a Notice of Intent to Ballot (NIB) to progress project through HL7 balloting process

HL7 Milestone	Due Date
Project Proposal	✓
Project Scope Statement (PSS)	April 25, 2021
FHIR IG Proposal	June 20, 2021
Notice of Intent to Ballot (NIB)	July 4, 2021
Ballot Signup Starts	July 12, 2021
Final IG Content	August 8, 2021
Ballot Signup Ends	August 12, 2021
Ballot Voting Starts	August 13, 2021
Ballot Voting Ends	September 13, 2021



***FAST* Pilot Plans:**
Initial Testing Strategy
Using Da Vinci Use Cases





Example CDS/FHIR Transaction Journey – PDex (Da Vinci Payer Data Exchange)



PCP initiates clinical referral or inpatient request



PCP needs prior auth requirements information from Payer

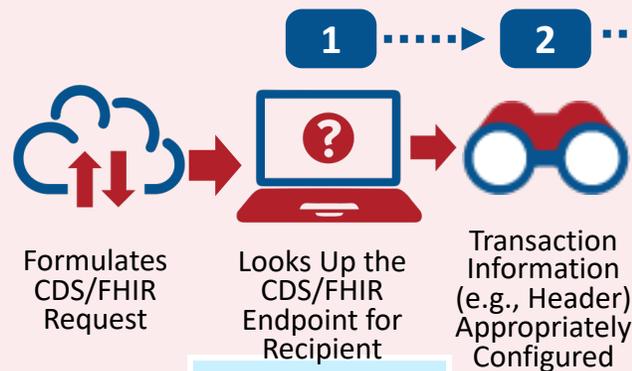


Payer receives PCP requests
Payer PDex Interactions
 1) Payer receives CDS request and creates CDS card
 2) CDS Card is returned in real time & PDex bundle is available

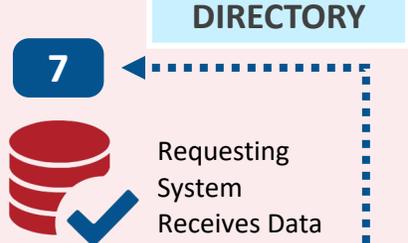
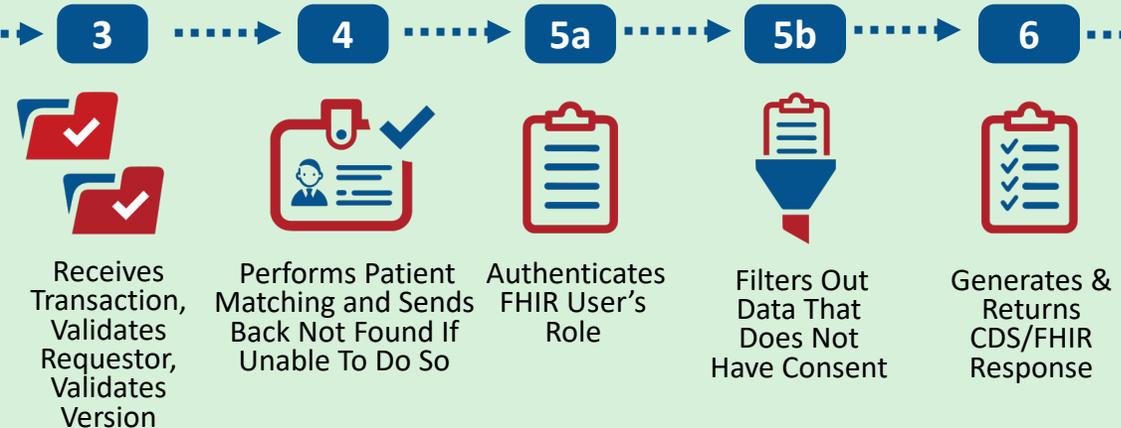
EHR PDex Interactions

- 1) [START] PCP's EHR requests CDS Card from payer
- 2) CDS Card is processed & PDex bundle is made available to EHR for visualization and integration [END]

REQUESTING SYSTEM



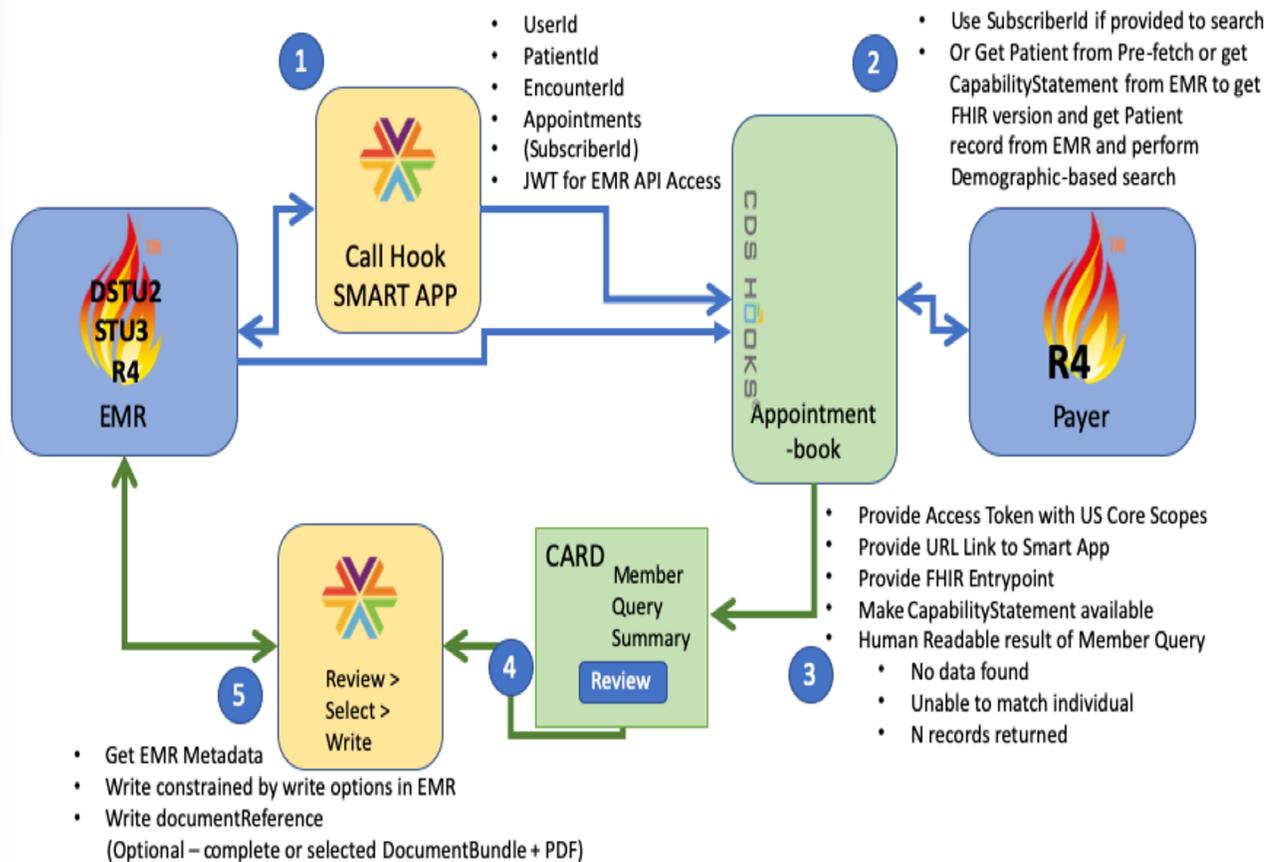
RECEIVING SYSTEM



PCP views patient information



FAST Pilots Support with Da Vinci PDex (Payer Data Exchange)



FAST Solutions Tested

	Directory	Versioning	Exchange	Identity	Scale	Security	Conformance & Certification
1 2	✓	✓	✓	✓		✓	✓
3 4 5	✓	✓	✓	✓		✓	✓



FAST Solutions Tested via Da Vinci Use Cases

FAST Solutions Tested

Da Vinci Use Case	Directory	Versioning	Exchange	Identity	Scale	Security	Conformance & Certification
Coverage Requirements Discovery (CRD)	✓		✓	✓		✓	
Documentation Templates & Rules (DTR)	✓	✓		✓		✓	✓
Prior Authorization Support (PAS)	✓	✓	✓	✓	✓	✓	✓
Payer Data Exchange (PDex)	✓	✓	✓	✓		✓	✓
Clinical Data Exchange (CDex)	✓	✓	✓	✓		✓	✓



FAST Solution Testing & Industry Validation Stages

- Provider
- Payers
- IT Vendors
- Research
- Networks
- Intermediaries
- EHRs
- Population Health
- Public Health

Q1 2021

Q2 2021

Q3 2021

Q4 2021/Q1 2022

Regulatory Driver:

CMS Requirement for Patient Access API Enforcement July 1, 2021



Future Testing Opportunities and Potential Stakeholders

PHASE 1



Validation/ Technical Testing through HL7 Connectathons

- Primary focus on testing individual solutions
- Less support and coordination

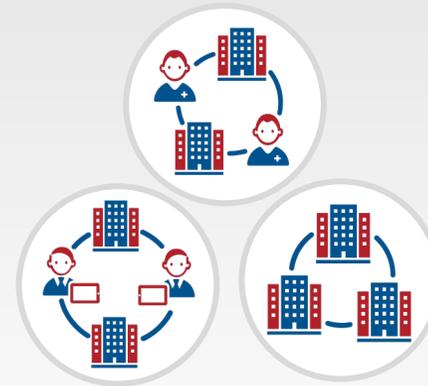
PHASE 2



Pilot Toolkit/Sandbox Introduced for FHIR Accelerators & Other FHIR Initiatives

- Primary focus on testing individual solutions
- Added support via process documentation and tools for implementers
- Incorporate lessons learned from phase 1

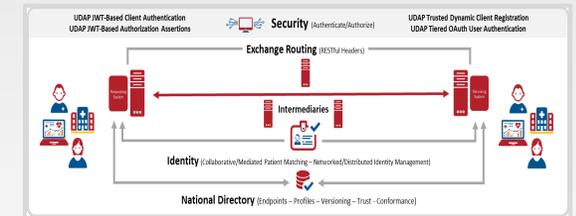
PHASE 3



ONC Convened Demonstration Projects (Subject to Approval & Funding)

- Testing incorporates multiple solutions
- Industry-led and funded projects
- Additional coordination and support from ONC
- Incorporate lessons learned from phases 1 and 2

PHASE 4



Coordinated Multi-Stakeholder Pilot(s) (Subject to Approval & Funding)

- Testing integrates multiple solutions with multiple exchange partners
- Program level coordination and support
- Additional funding via joint stakeholder or industry in-kind
- Incorporate lessons learned from phases 1, 2, 3

COMPLEXITY

PM



Next Steps Through 2021 (DRAFT): Pilots

External Drivers

HL7

Jan HL7 FHIR
Connectathon
Proposals Due

Jan 2021 HL7

FHIR Connectathon

Test Individual Solutions

- **Exchange** – test metadata/RESTful headers
- **Directory** – test basic concepts of endpoint query IG
- **Security** – test primary solution concepts (TBD)

May 2021 HL7

FHIR Connectathon

Broaden Implementer Community

- **Exchange** – test metadata/RESTful headers, broaden community of implementers
- **Directory** – test entire endpoint query IG
- **Security** – test all solution concepts (TBD)
- **Test additional solutions to set the testing pattern (TBD)**

Sept 2021 HL7

FHIR Connectathon

- Exchange
- Directory
- Security
- **Broaden community of implementers for additional solutions (TBD)**

HL7 May 2021
Ballot Cycle

HL7 Sept 2021
Ballot Cycle



FAST Workstream

Pilots

Develop Pilots Framework

Define Pilot Model(s)/Structure

Develop Pilot "Toolkit" & "Sandbox"

Participant Recruitment/ Onboarding: Continue to Build Awareness & Interest in Validation Testing & Pilots

Phase 1: Solution Validation Testing Through Connectathons

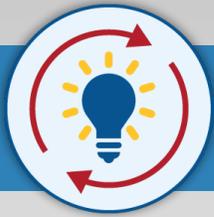
Phase 2: FHIR Accelerator/Initiative Testing with Pilots Toolkit/Sandbox

Phase 3: Run Demonstration Projects

* Subject to funding availability/as needed

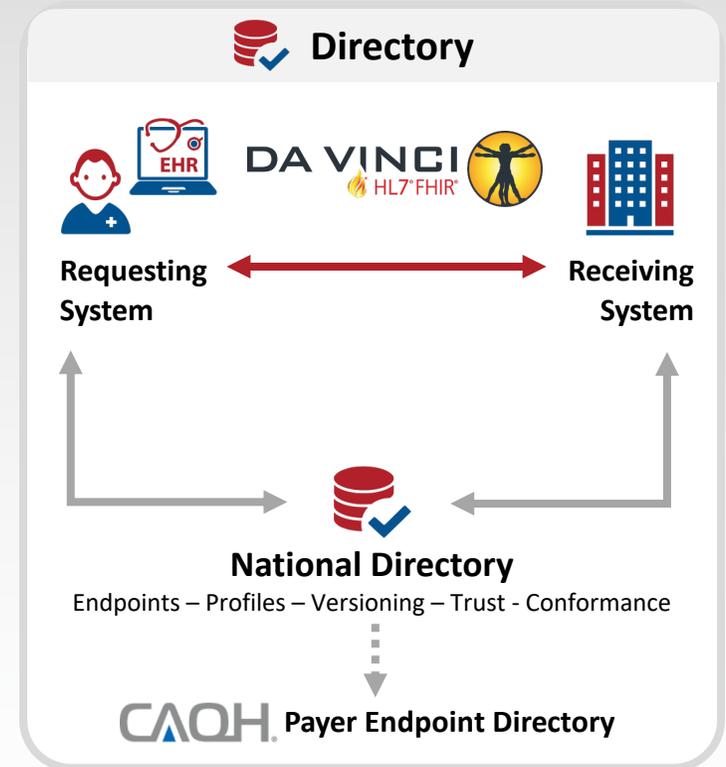
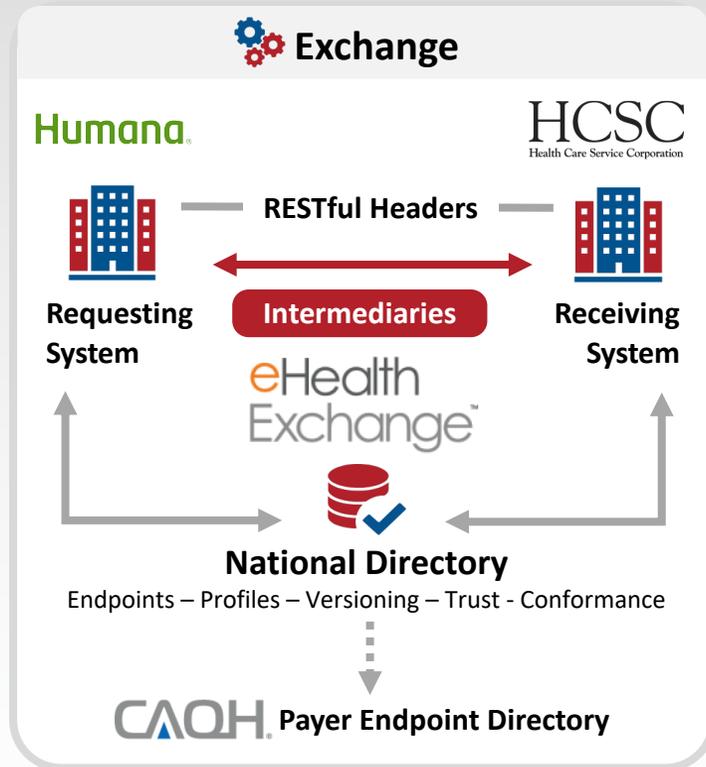
PM

Phase 4: Pilots TBD*



Phase 1: Validation/Technical Testing Through Connectathons

HL7 FHIR JANUARY 2021 CONNECTATHON



Future Testing Opportunities and Potential Stakeholders

Provider



Payers



IT Vendors



Research



Networks



Intermediaries



EHRs

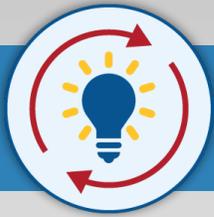


Population Health

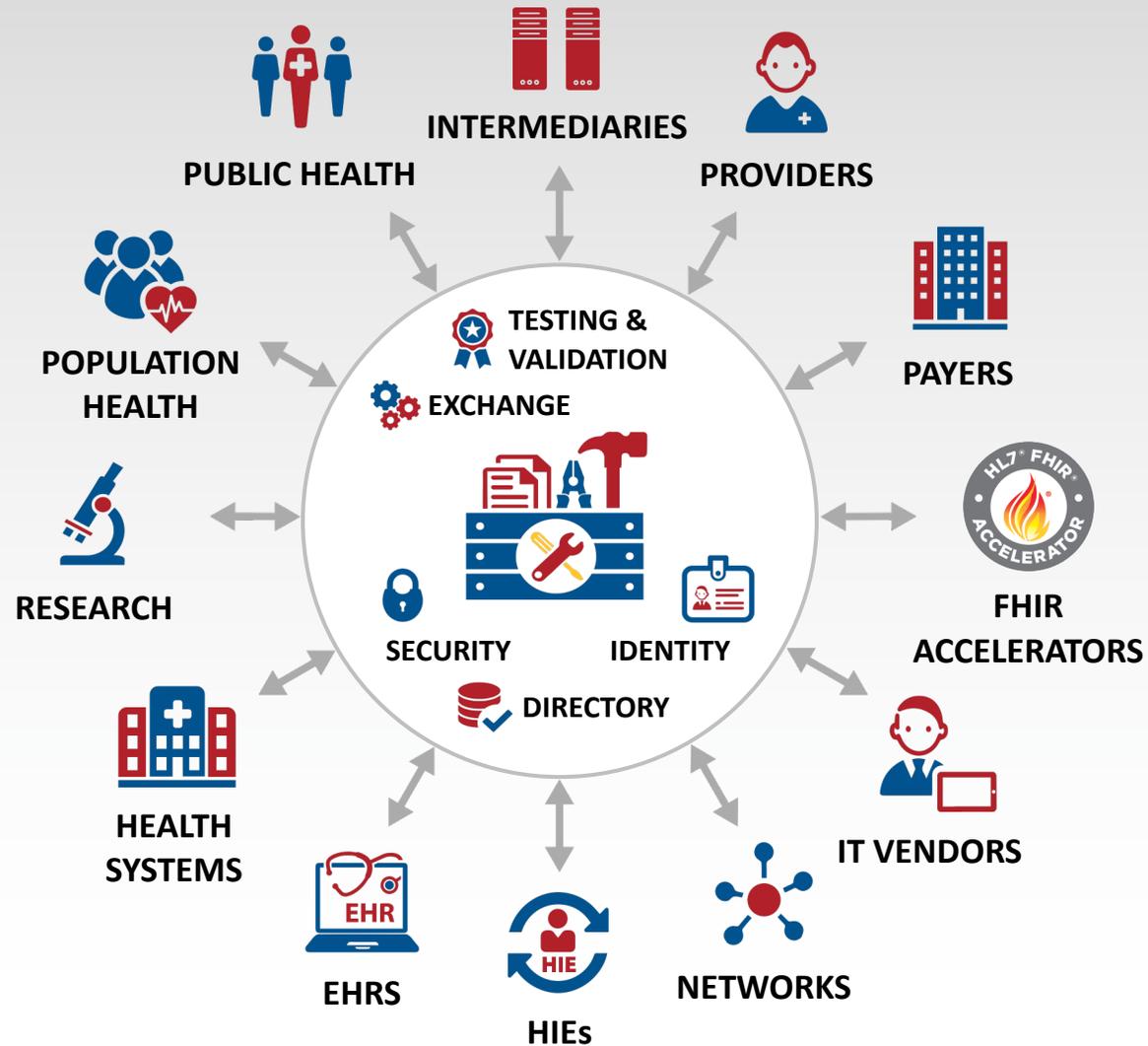


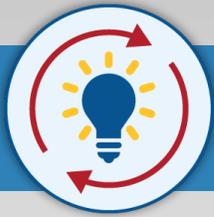
Public Health



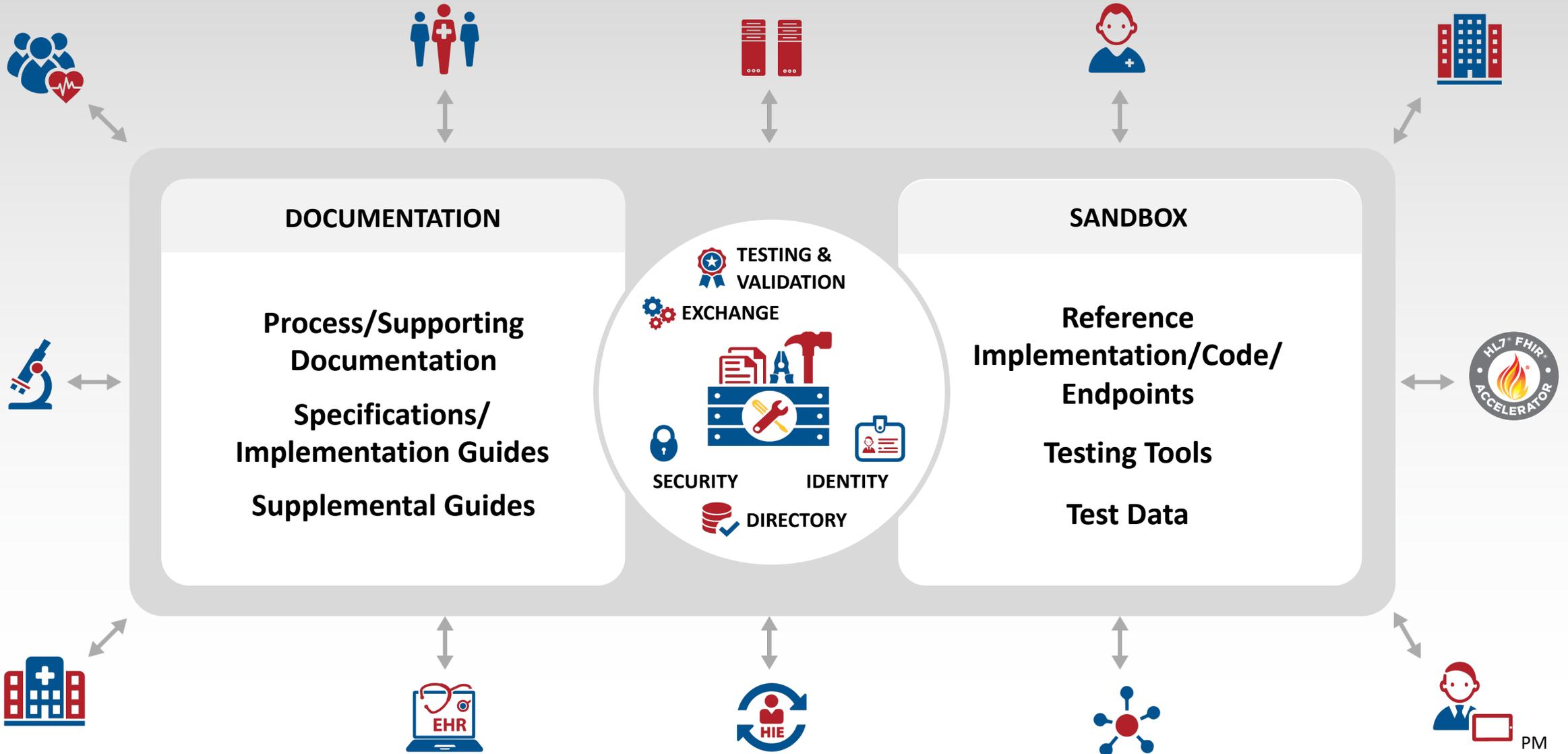


Phase 2: Pilot Toolkit/Sandbox – Stakeholders Select Relevant Tools





Phase 2: Pilot Toolkit/Sandbox Contents



***FAST* Artifacts and More ...**





FAST Artifacts

New to *FAST*? Or looking for more details?

Explore the following *FAST* artifacts:

- [2020 FAST Action Plan](#)
- [2020 FAST End of Year Report](#)
- [2020 FAST Workshop Materials](#)
- [The FAST 2020 Mid-Year Report](#)
- [The FAST 2019 End of Year Report](#)
- [SME Panel Session Pages](#)
- [Key Accomplishments](#)

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Questions?





Thank You – Today's Presenters

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For more information on the *FAST* Initiative,
visit the *FAST* [Project Page](#)

Have any further questions/suggestions?

Please contact Stephen Konya at Stephen.Konya@hhs.gov